The nest was suspended in branches 3 m above the ground and held by nest sticks that were entangled in the net. Also entangled in the net was part of a steelhead (Salmo gairdneri) carcass and an unidentified bone. Evidence suggests that an adult eagle carried the entangled fish and net to the nest. Death to the eaglet resulted from strangulation and the 18 m fall from the nest.

This type of monofilament gillnet is commonly used by local steelhead fishermen. Gillnet fishing is increasing in the near-shore waters of Puget Sound and the Washington Coast (L. Clockin, Wash. Dept. of Fisheries, pers. comm.) where the majority of nesting and wintering eagles forage in the state. Although the population impacts from net

entanglement are unknown, this observation is significant because it documents that such nets can be a secondary source of mortality to Bald Eagles.

ACKNOWLEDGMENTS

I thank Ken Dixon and Steve Jeffries for their comments on an earlier draft of this note. Rick Knight, Gary Bortolotti and Al Harmata critically reviewed the final draft.

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Received 10 November 1988; accepted 20 March 1989

J. Raptor Res. 23(2):53-55© 1989 The Raptor Research Foundation, Inc.

FOOD HABITS OF RED-TAILED HAWKS IN BOULDER COUNTY, COLORADO

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The Red-tailed Hawk (Buteo jamaicensis) is a common raptor in Colorado, yet nothing is known about its food habits there. The objective of this study was to qualitatively document nesting season food-habits of Red-tailed Hawks in Boulder County, Colorado. Boulder County is located on the eastern slope of the Front Range of the Rocky Mountains in north central Colorado. The county contains 5 major ecosystem types defined along an altitudinal gradient: Plains Grassland, ≤1707 m; Lower Montane Forest, 1829–2348 m; Upper Montane Forest, 2439–2744 m; Subalpine Forest, 2835–3354 m; and Alpine Tundra, ≥3445 m (Marr 1964).

Nests were located early in 1985 by visiting areas where Red-tailed Hawks and their nests were historically known to occur. After a nest fledged young or was abandoned, pellets and other prey remains (e.g., carcasses, body parts, etc.) found in its "white-wash" zone were collected during a 1 hr search. One nest tree was climbed and pellets and other remains were removed. Skulls and other identifiable body parts were identified whenever found. From nests having ≤20 pellets, all pellets were analyzed for mammalian and avian prey; 20 randomly selected pellets were analyzed from nests with >20 pellets. Five percent of the pellets that contained hair were re-analyzed to obtain a measure of precision (N consistently reidentified/N reidentified); 82% of the prey items in these were re-identified consistently. No attempts were made to identify scales or chitinous remains in this study despite their presence in pellets.

Ten nests were located (including 1 nest used in 1984

but not in 1985) in 3 ecosystem types (Plains Grassland, 6 nests; Lower Montane Forest, 2 nests; Upper Montane Forest, 1 nest) and 1 nest in the ecotone between Plains Grassland and Lower Montane Forest. Pellets and remains were collected beneath 7 nests and within 1 nest. Of 380 pellets collected from 8 of the nests (range 2–147), 112 (29%) were analyzed for content. Pellets from all habitats with nests were represented in the analysis.

Twenty-six mammalian and 6 avian species were identified, including 6 species that, to my knowledge, had previously not been reported to be consumed by Red-tailed Hawks (Table 1). Prey species were those expected to be found near respective nests based on known mammalian and avian distributions in Colorado (Armstrong 1972; Kingery and Graul 1978). Hawks from Plains Grassland consumed 17 different species (14 mammals, 3 birds), ecotone hawks, 7 species (4 mammals, 3 birds), Lower Montane Forest hawks, 12 species (11 mammals, 1 bird), and Upper Montane Forest hawks, 9 species (8 mammals, 1 bird). However, these discrepancies may be an artifact of the numbers of nests studied in each ecosystem. Preferences of individual hawks and availability and vulnerability of prey around a given nest influence what individual Red-tailed Hawks consume (Errington and Breckenridge 1938; Beebe 1974; Adamcik et al. 1979).

ACKNOWLEDGMENTS

I thank D. M. Armstrong for advice, criticism, and encouragement while conducting this project. M. Figgs, S. Jones, N. Lederer, and many members of the Boulder

Table 1. Mammalian^a and avian^b species consumed by Red-tailed Hawks^{c,d} in Boulder County, Colorado.^e Species marked with an asterisk had never previously been reported to be consumed by Red-tailed Hawks.^f

SPECIES	Навітат	N Nest
Mammals		
Unidentified Shrews, Sorex spp.	UM	1
Black-tailed Jackrabbit, Lepus californicus	PG	1
Pika, Ochotona princeps*	LM, UM	2
Desert Cottontail, Sylvilagus auduboniic	PG	1
Nuttall's Cottontail, Sylvilagus nuttalii	PG	2
Unidentified rabbits, Sylvilagus spp.	PG	2
Beaver, Castor canadensis*	LM, UM	2
Black-tailed Prairie Dog, Cynomys ludovicianus	$\mathbf{PG}^{'}$	3
Plains Pocket Gopher, Geomys bursarius*	PG	3
Yellow-bellied Marmot, Marmota flaviventris	E, LM, UM	3
Long-tailed Vole, Microtus longicaudus*c	$\mathbf{L}\mathbf{M}$	1
Prairie Vole, Microtus ochrogaster ^c	PG	2
Meadow Vole, Microtus pennsylvanicus	PG, E, LM, UM	6
Unidentified voles, Microtus spp.	PG, UM	3
Muskrat, Ondatra zibethicus	PG	2
Deer Mouse, Peromyscus maniculatus	PG	3
Unidentified mice, Peromyscus spp.	PG	1
Western Harvest Mouse, Reithrodontomys megalotis	PG	1
Plains Harvest Mouse, Reithrodontomys montanus*	PG	1
Abert's Squirrel, Sciurus aberti	E, LM	2
Fox Squirrel, Sciurus niger	PG	1
Unidentified squirrels, Sciurus spp.	${f E}$	1
Golden-mantled Ground Squirrel, Spermophilus lateralis	$\mathbf{L}\mathbf{M}$	1
Thirteen-lined Ground Squirrel, Spermophilus tridecemlineatus	PG	1
Least Chipmunk, Tamias minimus	UM	1
Uinta Chipmunk, Tamias umbrinus*	$\mathbf{U}\mathbf{M}$	1
Unidentified chipmunks, Tamias spp.	UM	1
Red Squirrel, Tamiasciurus hudsonicus	LM, UM	3
Northern Pocket Gopher, Thomomys talpoides	E, LM, UM	3
Western Jumping Mouse, Zapus princeps	LM	1
Striped Skunk, Mephitis mephitis	LM	1
Raccoon, Procyon lotor	PG	1
Birds		
Northern Flicker, Colaptes auratus	PG, LM, UM	3
Steller's Jay, Cyanocitta stelleri	E	1
Black-billed Magpie, Pica pica	$\overline{\mathbf{E}}$	1
Western Tanager, Piranga ludoviciana	PG	1
European Starling, Sturnus vulgaris	\overline{PG}	3
American Robin, Turdus migratorius	E	1

^a Mammal names follow Jones et al. 1982.

^b Bird names follow American Ornithologists' Union 1983.

^c Identified by skeletal remains only.

^d Six mammals were identified to genera only, and 5 of these (Sylvilagus, Microtus, Peromyscus, Sciurus, and Tamias) may overlap items identified to species.

^c Nest area habitats include the following major ecosystem types: Plains Grassland (PG); Plains Grassland-Lower Montane Forest ecotone (E); Lower Montane Forest (LM); Upper Montane Forest (UM).

f Blumstein, unpubl. ms.

County Audubon Society and Boulder County Nature Association helped me locate nests. The City of Boulder Open Space and Mountain Park Rangers, and G. Craig of the Colorado Division of Wildlife, provided helpful information. R. Weiser and the Getmans allowed me access to their land and Red-tailed Hawk nests. R. Adams, B. Gilbert, S. Pederson, and J. Strauch helped identify pellet contents. D. M. Armstrong, D. L. Evans, B. Jakob, M. R. Lein, R. K. Murphy, and J. R. Parrish helped improve previous versions of this paper. I was supported by a UCD Graduate Fellowship during manuscript preparation.

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Received 18 October 1987; accepted 6 March 1989

J. Raptor Res. 23(2):55-56
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Bald Eagle Kills Sharp-shinned Hawk

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Klem (Wilson Bull. 97:230-231, 1985) described several instances of diurnal raptors killing other diurnal raptor species. I witnessed a similar incident during raptor migration in the fall of 1985.

At 1005 H on 28 September 1985 two raptors were observed flying toward North Lookout at Hawk Mountain Sanctuary, Berks County (40°35′N, 75°55′W), in eastcentral Pennsylvania. The birds were first observed at a distance of approximately 1000 m and were approximately 50 m apart moving parallel to the ridge in a generally WSW direction. The larger of the 2 birds was identified as an eagle, the second bird as an accipiter. Less than 10 s after the initial sightings a third raptor, a smaller accipiter, approached the pair from behind and above and began harassing the eagle by diving repeatedly. At this point the larger accipiter (believed to be a Northern Goshawk [Accipiter gentilis] but identification was not certain), turned to the NW and passed the observation point on the north side of the ridge without further interaction with either of the other two raptors.

The small accipiter, judged to be a Sharp-shinned Hawk (Accipiter striatus) based on size and flight characteristics, made 3 passes at the eagle. Each pass was within centimeters of the bigger bird, causing it to turn quickly from side to side. Considerable distance from the observer to the birds made precise observation difficult, and the accipiter was unobserved for perhaps 3 s. The small raptor was next observed approximately 20 m below and in front of the eagle. The eagle dived but missed the smaller bird, which no longer moved with its previous speed and agility. The larger bird made 3 unsuccessful attempts at capturing the accipiter, but each time the smaller raptor pitched forward and downward with movements that indicated possible wing damage. On the fourth try the eagle successfully grasped the small accipiter in its talons.

The eagle, now clearly seen to be an immature Bald Eagle (*Haliaeetus leucocephalus*) carried its catch as it continued its flight parallel to the ridge. The eagle passed my observation site approximately 200 m to the south and 50 m above. As it did it lowered its head, struck its prey with